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Mass spectra were photographed for air, nitrogen,
oxygen, argon, water vapor, mercury vapor, and
illuminating gas. The photoionization was produced by
a vacuum spark the light from which was not decom-
posed spectrally. The ionization products which were
found can be explained by simple photoionization,
respectively by dissociation. Compared to oxygen,
nitrogen shows under similar conditions a weaker
photodissociation. For purposes of comparison the
photoionization was investigated also with light which
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The following experiments are described and interpreted:
(1) Comparison of prehydrolysis in pure aqueous HCl and in presence of alcohol. A correlation was found between carbon chain length of the respective alcohol (Materials--Wood, TT, v. 10, no. 7) (over)

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